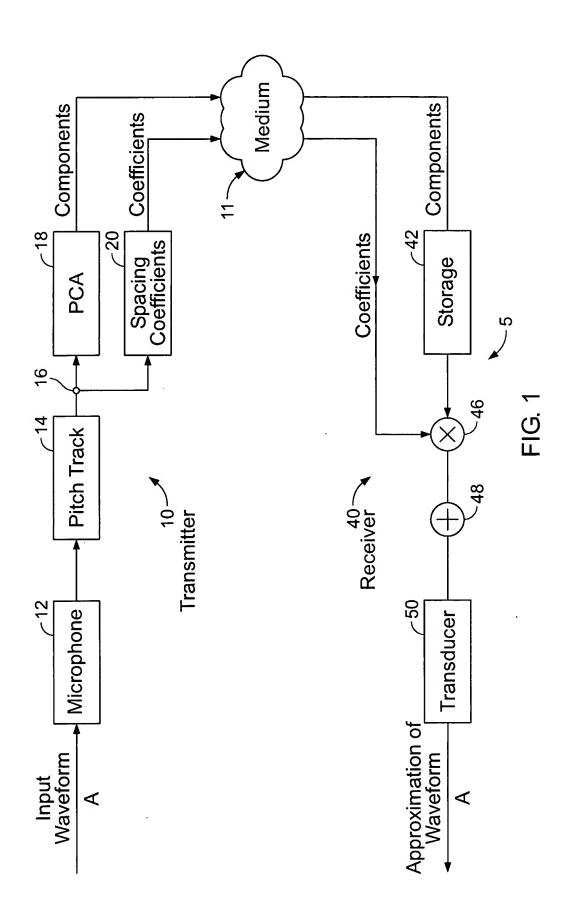
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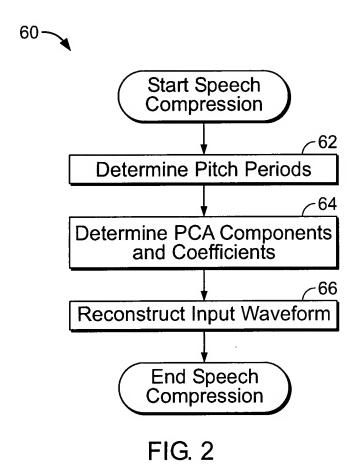




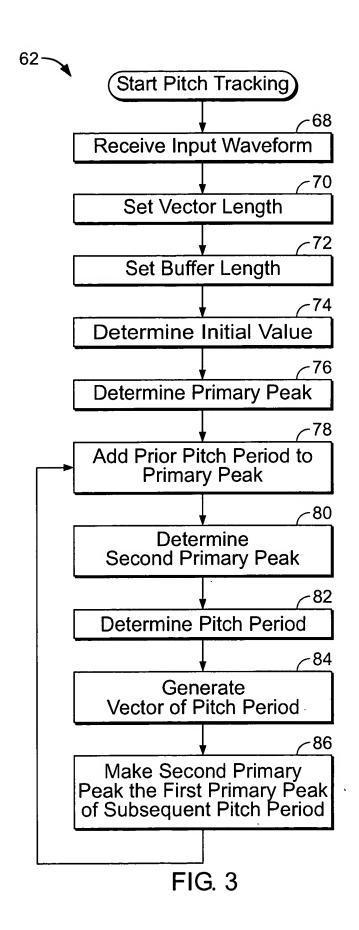
Appln No.: 10/624,092

Applicant(s): Ezra J. Rapoport

SPEECH COMPRESSION USING PRINCIPAL COMPONENT



SPEECH COMPRESSION USING PRINCIPAL COMPONENT ANALYSIS



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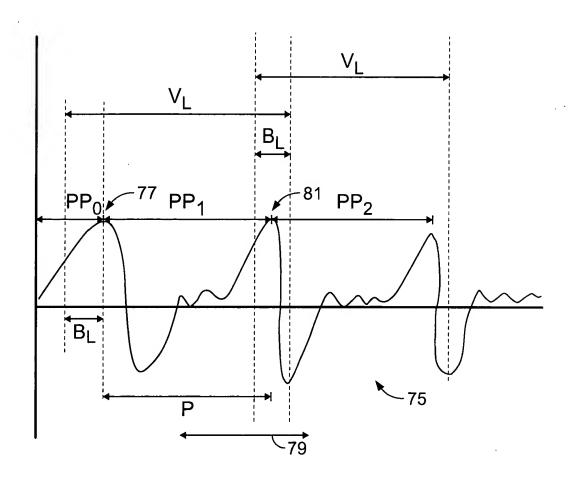


FIG. 4

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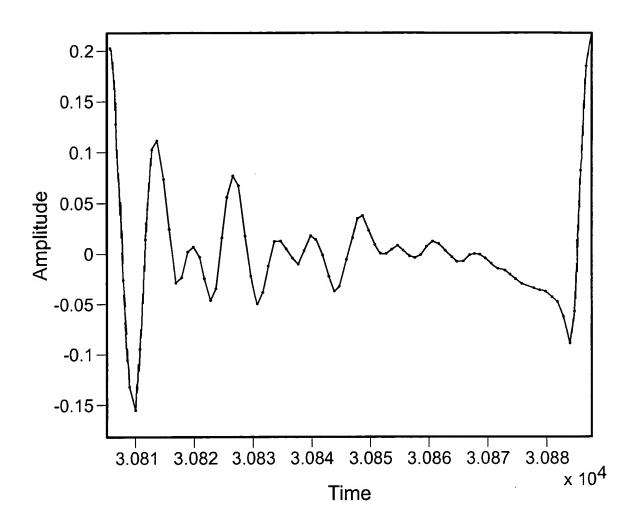


FIG. 5

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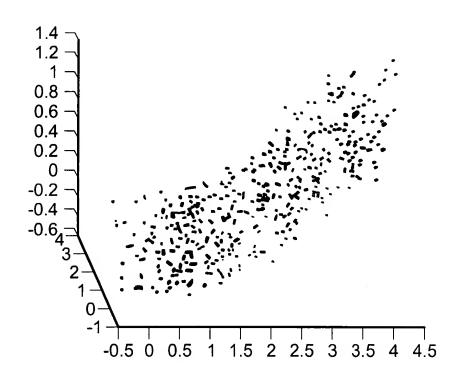
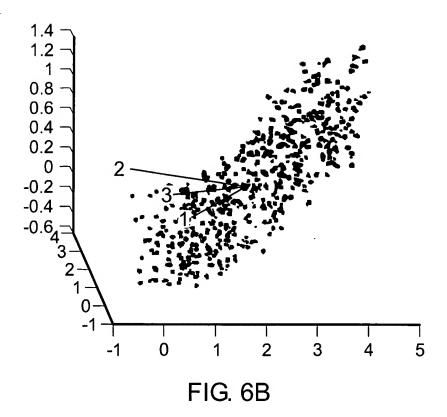
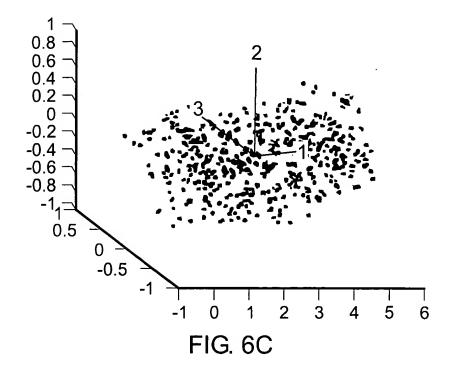


FIG. 6A

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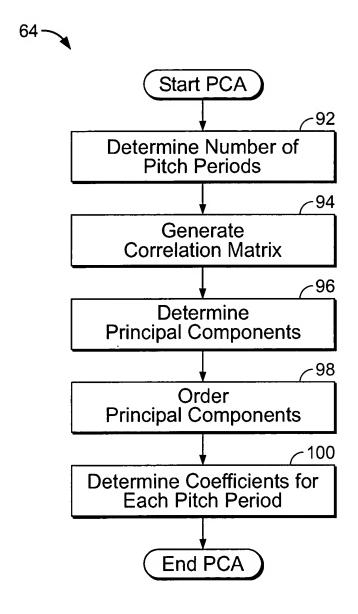


FIG. 7

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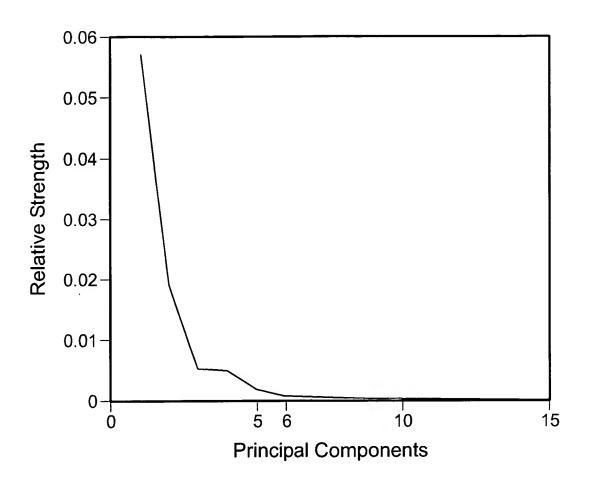


FIG. 8

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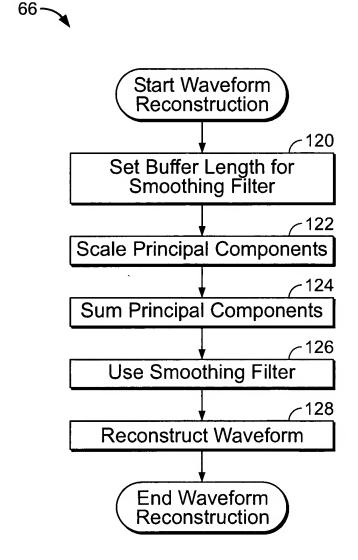
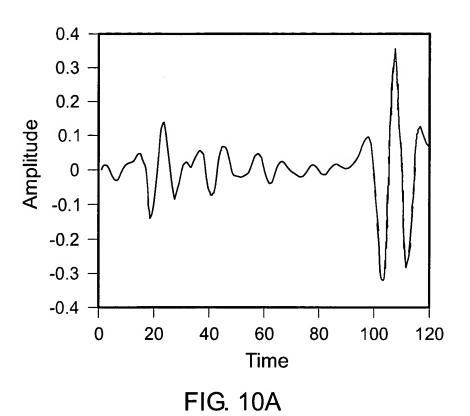


FIG. 9

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SPEECH COMPRESSION USING PRINCIPAL COMPONENT

ANALYSIS

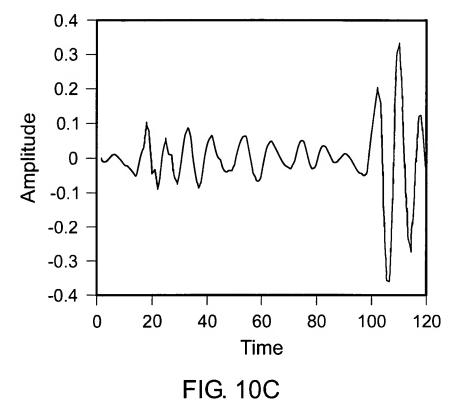


0.3 0.2 Amplitude 0.1 0 -0.1 -0.2 -0.3 60 100 0 20 120 40 80 Time

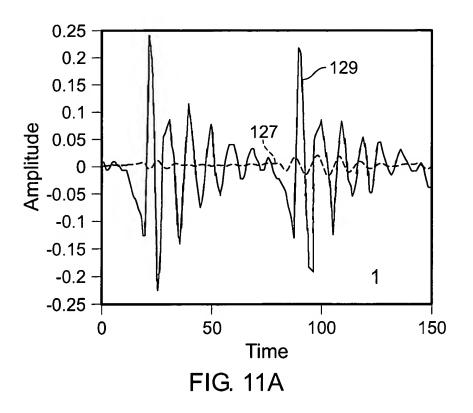
FIG. 10B

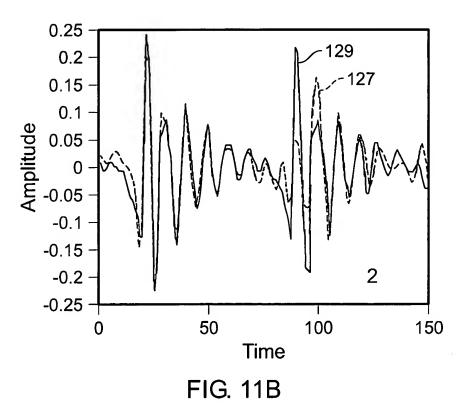
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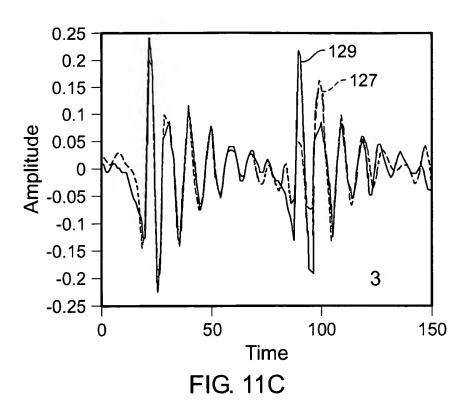
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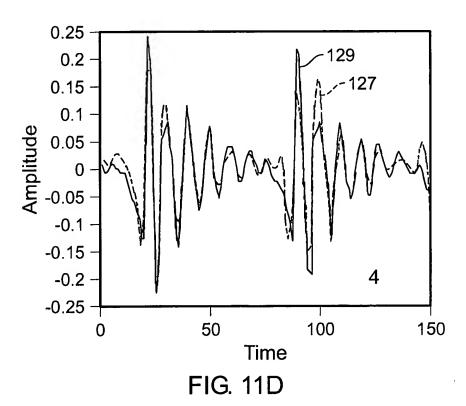


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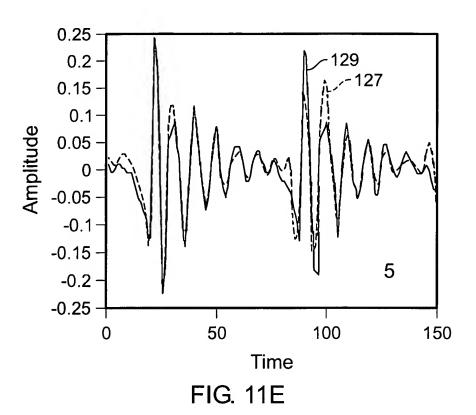




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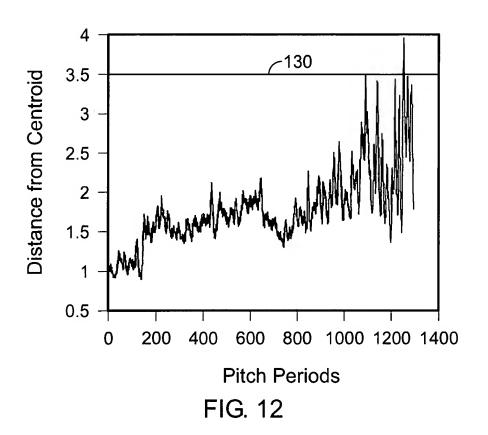
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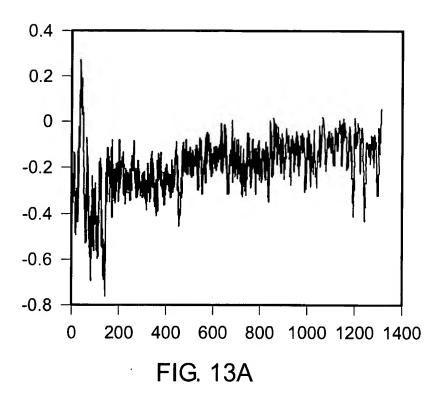


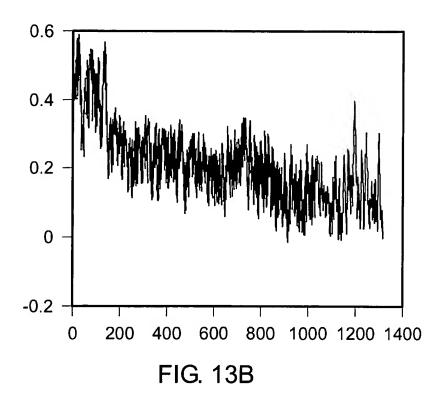
0.25 0.2 129 0.15 0.1 Amplitude 0.05 0 -0.05 -0.1 -0.15 6 -0.2 -0.25 100 0 50 150 Time

FIG. 11F



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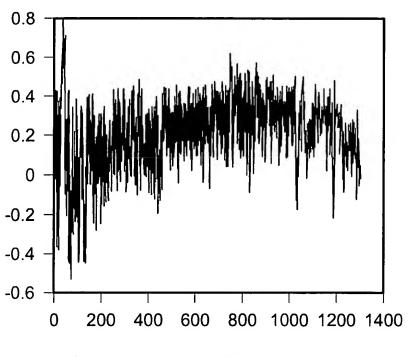


FIG. 13C

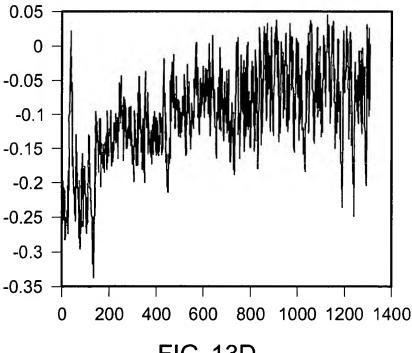


FIG. 13D

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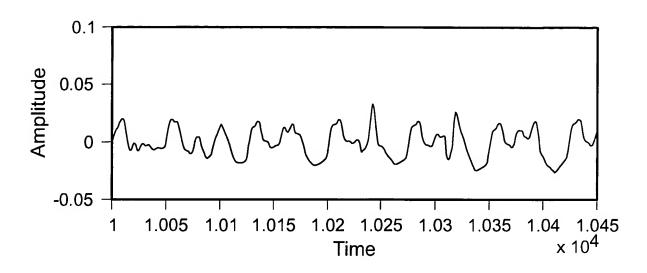


FIG. 14A

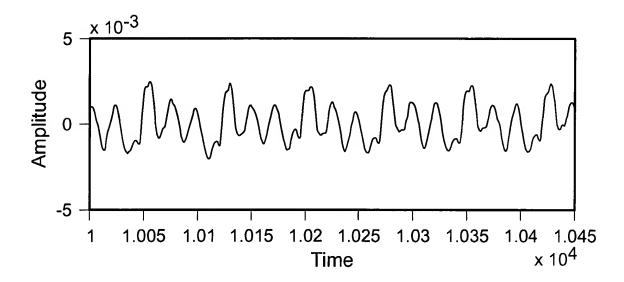
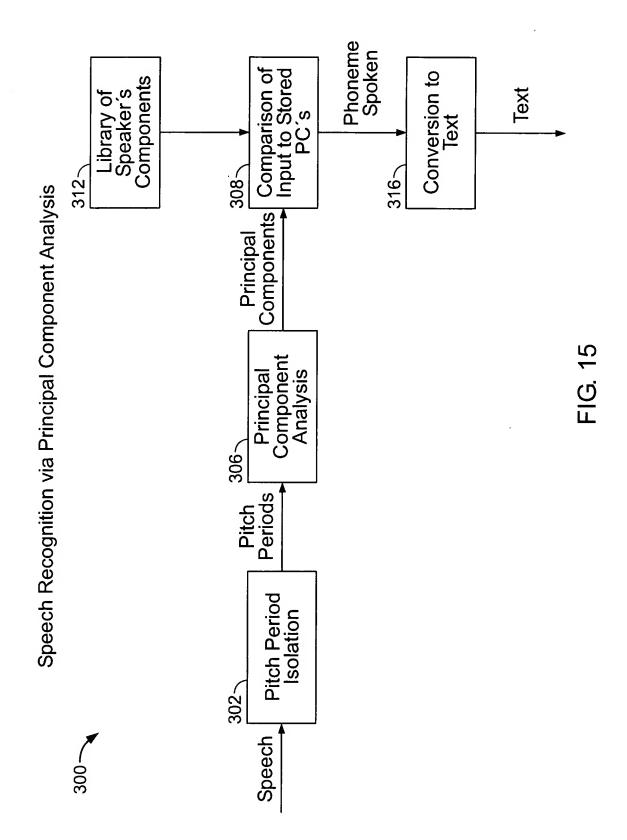


FIG. 14B

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ANALYSIS



SPEECH COMPRESSION USING PRINCIPAL COMPONENT

ANALYSIS

Speech Synthesis via Principal Component Analysis

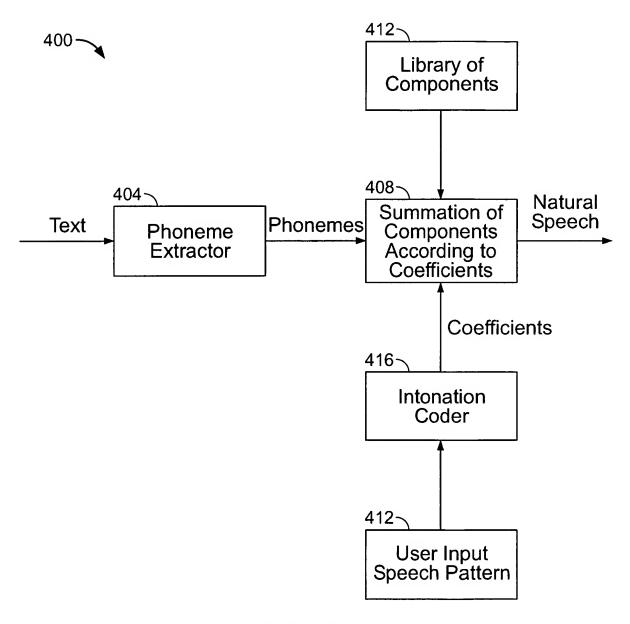


FIG. 16

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